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(71) Applicant *(for all designated States except US)*: **FIBERLINE A/S** [DK/DK]; Nr. Bjertvej 88, DK-6000 Kolding (DK).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **THORNING, Henrik** [DK/DK]; Ægirsvej 10, Strandhuse, DK-6000 Kolding (DK).

(74) Agent: **NIELSEN, Henrik, Sten**; Budde, Schou & Ostenfeld A/S, Vester Søgade 10, DK-1601 Copenhagen V (DK).

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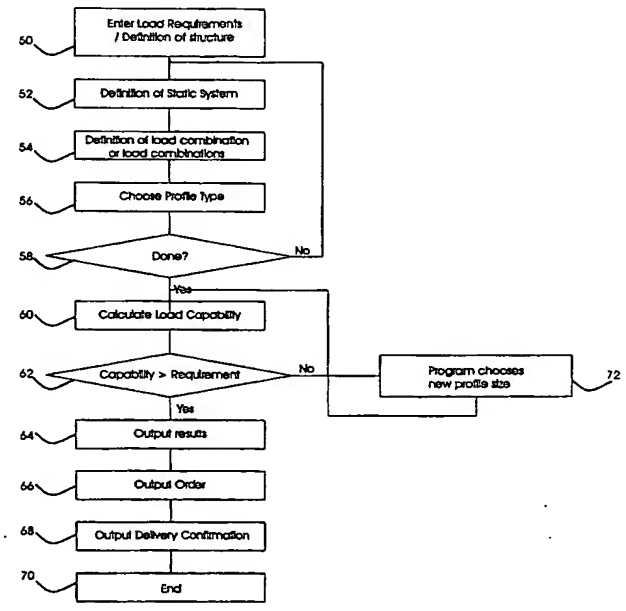
(54) Title: COMPUTER-IMPLEMENTED METHOD OF SELECTING A PROFILED ELEMENT FOR A LOAD-BEARING STRUCTURE



(57) Abstract: A method of selecting and delivering a profiled, composite pulltruded element for a load-bearing structure comprises: Providing load requirements and dimensions of the load-bearing structure, addressing a homepage and selecting from a list of profiled, composite pulltruded elements included in a database a specific profiled, composite pulltruded element and defining specific dimensions thereof corresponding to the dimensions of the load-bearing structure, and addressing a calculation program from the homepage for calculating the specific load capability of the specific profiled, composite pulltruded element for comparing the specific load capability with the load requirements of the structure for determining whether or not the load requirements be fulfilled or not. A positive validation response is forwarded from the calculation program via the homepage provided the comparison establishes the fulfillment of the load requirements or in the alternative, provided the comparison establishes the non-fulfilment of the load requirements, a negative validation response is forwarded and the calculation program selects an alternative profiled, composite pulltruded element from the list, and calculates the load capability thereof for comparison with the load requirements for selecting an alternative profiled, composite pulltruded element from the list fulfilling the load requirements and forwards data identifying the alternative profiled, composite pulltruded element along with the negative validation response to the computer. The method further comprises output of the positive validation response or in the alternative the negative validation response together with the data from the computer, returning an order to the homepage for the delivery of the specific profiled, composite pulltruded element or in the alternative the alternative profiled, composite pulltruded element, and delivery of the specific profiled, composite pulltruded element or in the alternative the alternative profiled, composite pulltruded element from a factory.

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